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NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPplus and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
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NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPplus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPplus currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPplus current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields

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NEWS 25 SEP 30 CAS patent coverage enhanced to include exemplified
prophetic substances identified in new Japanese-
language patents
NEWS 26 OCT 07 EPFULL enhanced with full implementation of EPC2000
NEWS 27 OCT 07 Multiple databases enhanced for more flexible patent
number searching
NEWS 28 OCT 22 Current-awareness alert (SDI) setup and editing
enhanced
NEWS 29 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
Applications

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:51:18 ON 23 OCT 2008

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DICTIONARY FILE UPDATES: 22 OCT 2008 HIGHEST RN 1064721-02-3

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L1 8 SWEFRT/SQSP

=> fil hcap

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE 'HCAPLUS' ENTERED AT 12:51:47 ON 23 OCT 2008

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FILE COVERS 1907 - 23 Oct 2008 VOL 149 ISS 17

FILE LAST UPDATED: 22 Oct 2008 (20081022/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

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=> l1

L2 10 L1

=> d l2 ibib abs hitstr 1-10

L2 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:527000 HCAPLUS

DOCUMENT NUMBER: 149:2554

TITLE: Genomic and functional analysis of ICEPdaSpal, a fish-pathogen-derived SXT-related integrating conjugative element that can mobilize a virulence plasmid

AUTHOR(S): Osorio, Carlos R.; Marrero, Joeli; Wozniak, Rachel A. F.; Lemos, Manuel L.; Burrus, Vincent; Waldor, Matthew K.

CORPORATE SOURCE: Microbiology and Genetics Programs, Tufts University

SOURCE: School of Medicine, Boston, MA, USA
 Journal of Bacteriology (2008), 190(9), 3353-3361
 CODEN: JOBAAY; ISSN: 0021-9193
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Integrating conjugative elements (ICEs) are self-transmissible mobile elements that transfer between bacteria via conjugation and integrate into the host chromosome. SXT and related ICEs became prevalent in Asian *Vibrio cholerae* populations in the 1990s and play an important role in the dissemination of antibiotic resistance genes in *V. cholerae*. Here, we carried out genomic and functional analyses of ICEPdaSpal, an SXT-related ICE derived from a Spanish isolate of *Photobacterium damsela* subsp. *piscicida*, the causative agent of fish pasteurellosis. The .apprx.102-kb DNA sequence of ICEPdaSpal shows nearly 97% DNA sequence identity to SXT in genes that encode essential ICE functions, including integration and excision, conjugal transfer, and regulation. However, .apprx.25 kb of ICEPdaSpal DNA, including a tetracycline resistance locus, is not present in SXT. Most ICEPdaSpal-specific DNA is inserted at loci where other SXT-related ICEs harbor element-specific DNA. ICEPdaSpal excises itself from the chromosome and is transmissible to other *Photobacterium* strains, as well as to *Escherichia coli*, in which it integrates into *prfC*. Interestingly, the *P. damsela* virulence plasmid pPHDP10 could be mobilized from *E. coli* in an ICEPdaSpal-dependent fashion via the formation of a cointegrate between pPHDP10 and ICEPdaSpal. PPHDP10-Cm integrated into ICEPdaSpal in a non-site-specific fashion independently of *RecA*. The ICEPdaSpal::pPHDP10 cointegrates were stable, and markers from both elements became transmissible at frequencies similar to those observed for the transfer of ICEPdaSpal alone. Our findings reveal the plasticity of ICE genomes and demonstrate that ICEs can enable virulence gene transfer.

IT 1027485-86-4
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; sequences, genomic and functional anal. of ICEPdaSpal, fish-pathogen-derived SXT-related integrating conjugative element that can mobilize virulence plasmid)
 RN 1027485-86-4 HCAPLUS
 CN Protein (*Photobacterium damsela* *piscicida* strain PC554.2 transposon ICEPdaSpal gene s088) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

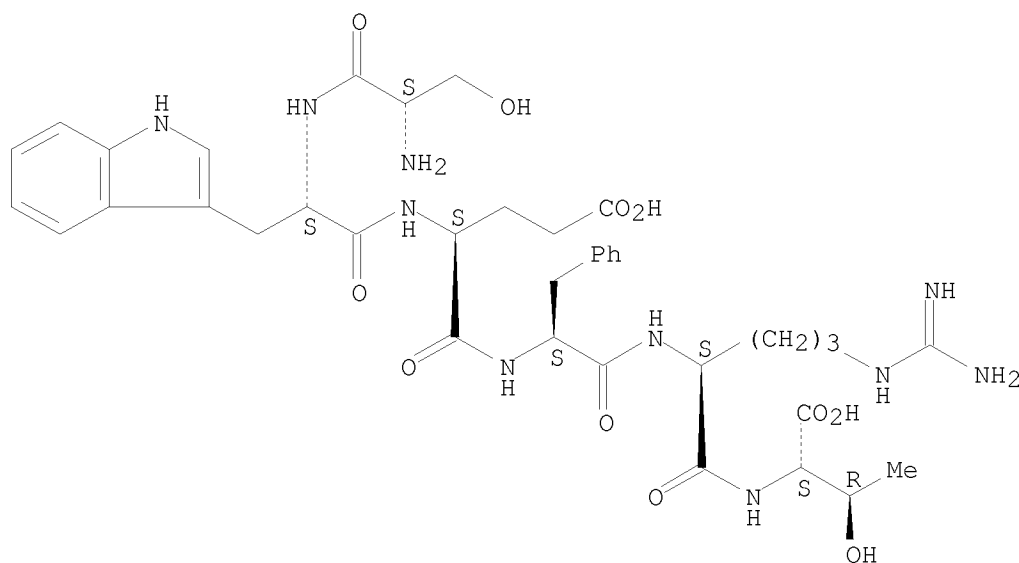
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:54915 HCAPLUS
 DOCUMENT NUMBER: 144:135452
 TITLE: Combination therapy with apheresis for preventing or treating Alzheimer's disease, and kit therefor
 INVENTOR(S): Mattner, Frank; Schmidt, Walter
 PATENT ASSIGNEE(S): Austria
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005706	A2	20060119	WO 2005-EP53224	20050706
WO 2006005706	A3	20060720		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AT 500483	A4	20060115	AT 2004-1185	20040713
AT 500483	B1	20060115		
AU 2005261687	A1	20060119	AU 2005-261687	20050706
CA 2577332	A1	20060119	CA 2005-2577332	20050706
EP 1765388	A2	20070328	EP 2005-767978	20050706
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
CN 101022825	A	20070822	CN 2005-80023830	20050706
JP 2008506665	T	20080306	JP 2007-520813	20050706
US 20080051690	A1	20080228	US 2007-571970	20070111
KR 2007036158	A	20070402	KR 2007-702208	20070129
PRIORITY APPLN. INFO.:			AT 2004-1185	A 20040713
			WO 2005-EP53224	W 20050706
AB	The invention relates to a method for preventing or treating Alzheimer's disease (AE). According to said method, a means for inducing a sequestration of amyloid β ($A\beta$) into a plasma is administered to a person, and the person is treated by means of an apheresis device comprising a fixed carrier that can come into contact with the blood or plasma flow and comprises a receptor binding an amyloid- β -precursor-protein (APP), the APP being removed from the blood of the person by means of the apheresis device. The invention also relates to a set for carrying out said method.			
IT	727727-47-1			
	RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination therapy with apheresis for preventing or treating Alzheimer's disease, and kit therefor)			
RN	727727-47-1 HCAPLUS			
CN	L-Threonine, L-seryl-L-tryptophyl-L- α -glutamyl-L-phenylalanyl-L-arginyl- (9CI) (CA INDEX NAME)			

Absolute stereochemistry.



L2 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2006:51142 HCAPLUS
 DOCUMENT NUMBER: 144:148852
 TITLE: Vaccine for prevention and treatment of Alzheimer's disease
 INVENTOR(S): Mattner, Frank; Schmidt, Walter
 PATENT ASSIGNEE(S): Austria
 SOURCE: PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006005707	A2	20060119	WO 2005-EP53225	20050706
WO 2006005707	A3	20060817		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AT 2004001184	A	20051115	AT 2004-1184	20040713
AT 413946	B	20060715		
AU 2005261688	A1	20060119	AU 2005-261688	20050706

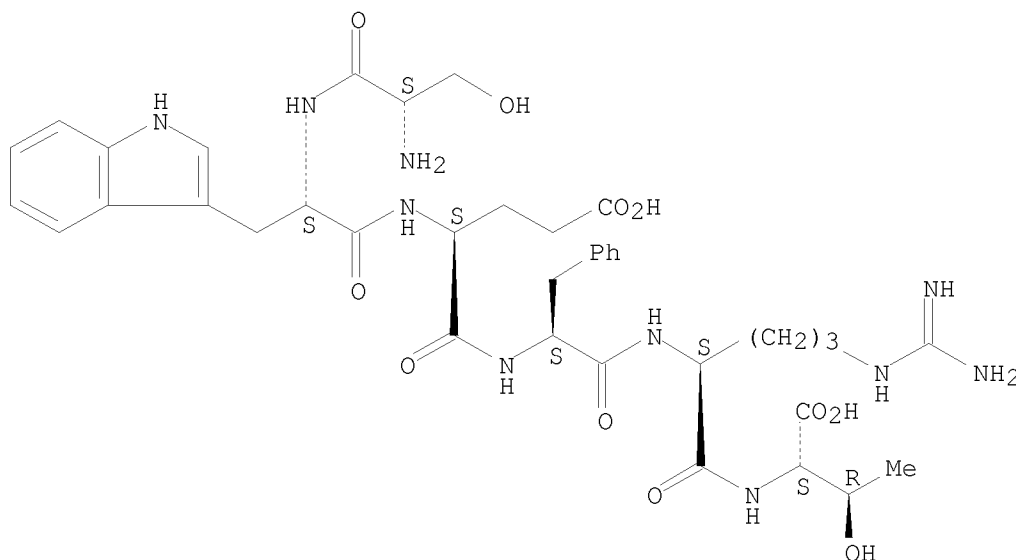
CA 2573424 A1 20060119 CA 2005-2573424 20050706
 EP 1765390 A2 20070328 EP 2005-769807 20050706
 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
 IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL,
 BA, HR, MK, YU
 CN 101043901 A 20070926 CN 2005-80030641 20050706
 JP 2008506666 T 20080306 JP 2007-520814 20050706
 KR 2007032033 A 20070320 KR 2007-702209 20070129
 PRIORITY APPLN. INFO.: AT 2004-1184 A 20040713
 WO 2005-EP53225 W 20050706

AB The author discloses the use of peptide mimotopes of the N-terminus of β -amyloid for vaccination against Alzheimer's disease. The mimotopes exhibit binding capacity for an antibody specific for the natural N-terminal sequence DAEFRH.

IT 727727-47-1
 RL: PRP (Properties)
 (unclaimed sequence; vaccine for prevention and treatment of Alzheimer's disease)

RN 727727-47-1 HCAPLUS
 CN L-Threonine, L-seryl-L-tryptophyl-L- α -glutamyl-L-phenylalanyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L2 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:606544 HCAPLUS
 DOCUMENT NUMBER: 141:152214
 TITLE: Cell cycle progression genes and proteins of Drosophila melanogaster and their human homologs and their use for prevention, treatment and diagnosis of disease
 INVENTOR(S): Glover, David; Bell, Graham; Frenz, Lisa; Midgley, Carol

PATENT ASSIGNEE(S): Cyclacel Limited, UK
 SOURCE: PCT Int. Appl., 461 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004063362	A2	20040729	WO 2003-GB5635	20031231
WO 2004063362	A3	20041202		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 20050227301	A1	20051013	US 2003-745237	20031223
AU 2003290321	A1	20040810	AU 2003-290321	20031231
EP 1587916	A2	20051026	EP 2003-782680	20031231
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006515754	T	20060608	JP 2005-512869	20031231
EP 1748065	A2	20070131	EP 2006-15664	20031231
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR			
PRIORITY APPLN. INFO.:			US 2003-439123P	P 20030110
			US 2003-468402P	P 20030506
			EP 2003-782680	A3 20031231
			WO 2003-GB5635	W 20031231

AB The invention describes human genes involved in cell cycle progression, including mitosis and meiosis. Candidate genes were identified by establishing their role in cell cycle progression through an RNAi-based knockdown approach in culture d *Drosophila melanogaster* cells followed by mitotic index evaluation (Cellomics Arrayscan). Human homologs are identified by performing a BLAST search and identifying the human protein with the best homol.; the role of the human genes are confirmed through RNAi in human cells followed by FACS anal. and microscopy. One hundred two *Drosophila* and human genes are identified and their transcript and encoded protein sequences provided. The invention also relates to the used of these "cell cycle progression" genes and proteins in the modulation of cell cycle progression in cells, and methods for identifying modulators of these genes or proteins and hence modulators of mitosis and meiosis.

IT 262973-73-9, GenBank AAF47396 727743-93-3
 RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; cell cycle progression genes and proteins of *Drosophila melanogaster* and their human homologs and their use for prevention, treatment and diagnosis of disease)
 RN 262973-73-9 HCAPLUS

CN Protein (Drosophila melanogaster gene CG13893) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 727743-93-3 HCAPLUS

CN Protein (Drosophila melanogaster gene CG13893) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:606350 HCAPLUS

DOCUMENT NUMBER: 141:150981

TITLE: Methods for preventing and treating Alzheimer's disease (AD) using N-terminal A β 42 peptide vaccines

INVENTOR(S): Mattner, Frank

PATENT ASSIGNEE(S): Austria

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062556	A2	20040729	WO 2004-EP162	20040113
WO 2004062556	A3	20040916		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
AT 2003001464	A	20051115	AT 2003-1464	20030917
AT 413945	B	20060715		
AU 2004204349	A1	20040729	AU 2004-204349	20040113
CA 2513218	A1	20040729	CA 2004-2513218	20040113
EP 1583774	A2	20051012	EP 2004-701585	20040113
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006515876	T	20060608	JP 2006-500553	20040113
EP 1679319	A1	20060712	EP 2005-107898	20040113
EP 1679319	B1	20071024		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1826354	A	20060830	CN 2004-80002213	20040113
AT 376559	T	20071115	AT 2005-107898	20040113
ES 2296084	T3	20080416	ES 2005-107898	20040113
US 20060111301	A1	20060525	US 2005-540551	20051011
PRIORITY APPLN. INFO.:			AT 2003-36	A 20030114
			AT 2003-1464	A 20030917
			EP 2004-701585	A3 20040113
			WO 2004-EP162	W 20040113

OTHER SOURCE(S): MARPAT 141:150981

AB The invention relates to the use of a compound comprising the following amino acid sequence X1X2X3X4X5X6, wherein X1 is an amino acid, except of C, X2 is an amino acid, except of C, X3 is an amino acid, except of C, X4 is an amino acid, except of C, X5 is an amino acid, except of C, X6 is an

amino acid, except of C, and wherein X1X2X3X4X5X6 is not DAEFRH, said compound having a binding capacity to an antibody being specific for the natural N-terminal A β 42 sequence DAEFRH, and 5-mers thereof having a binding capacity to said antibody being specific for the natural N-terminal A β 42 sequence DAEFRH, for the preparation of a vaccine for Alzheimer's disease. Mimetopes of DAEFRH were identified by screening 6-mer peptide libraries for binding to an antibody to DAEFRH.

IT 727727-47-1

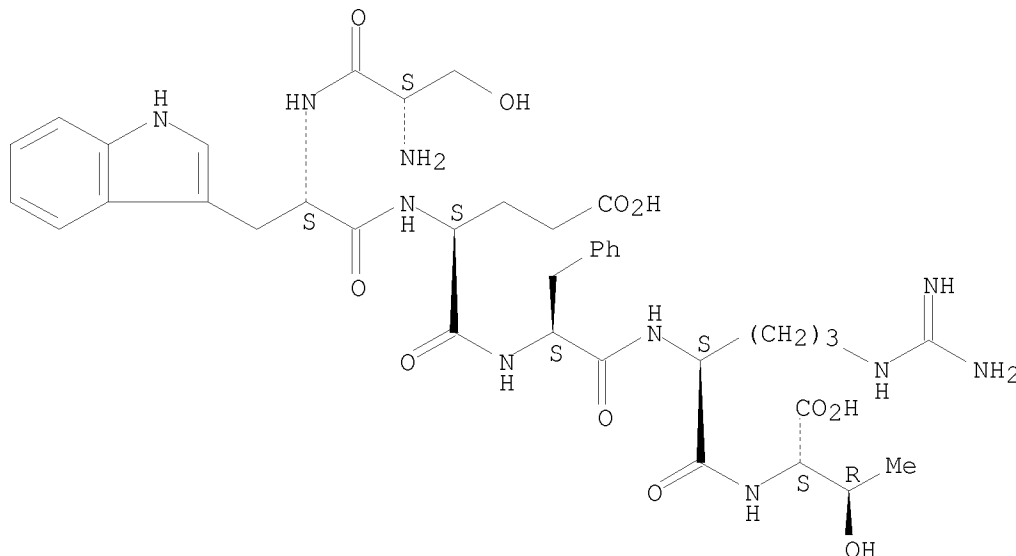
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)

(mimotope of natural N-terminal A β 42 peptide; N-terminal A β 42 peptide vaccines for preventing and treating Alzheimer's disease)

RN 727727-47-1 HCAPLUS

CN L-Threonine, L-seryl-L-tryptophyl-L- α -glutamyl-L-phenylalanyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L2 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:241801 HCAPLUS

DOCUMENT NUMBER: 140:248274

TITLE: EST and contig sequences of *Drosophila melanogaster* and their uses in microarrays, retrieval of full-length cDNAs and proteomic analysis, and for identification of pesticide targets

INVENTOR(S): Homburger, Sheila Akiko; Ebens, Allen James, Jr.;
Erickson, Catherine Sue; Francis-Lang, Helen Louise;
Margolis, Jonathan Scott; Reddy, Bindu Priya; Ruddy,
David Andrew; Buchman, Andrew Roy

PATENT ASSIGNEE(S): Exelixis, Inc., USA

SOURCE: U.S., 262 pp.
CODEN: USXXAM

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 19
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6703491	B1	20040309	US 1999-270767	19990317
US 6703491	B1	20040309	US 1999-270767	19990317
PRIORITY APPLN. INFO.:			US 1999-270767	A 19990317

AB The present invention relates to Drosophila genes and methods for their use. A library of 31,629 expressed sequence tags and contig sequences are provided from tissues of mixed-stage embryos (0-20 h), imaginal disks, and adult heads of Drosophila melanogaster. Drosophila ESTs and sequence contigs derived from ESTs are useful as tools for retrieval of full-length protein coding sequences, for proteomic anal., for use in microarrays and gene expression anal., and for identification of pesticide targets. Thus, the invention provides nucleotide sequences of Drosophila genes, amino acid sequences of the encoded proteins, and derivs. (e.g., fragments) and analogs thereof. Special emphasis is given to DNA sequences encoding G protein-coupled receptors and chitin synthetase. The invention further relates to fragments (and derivs. and analogs thereof) of proteins which comprise one or more domains of a Drosophila protein. Antibodies to Drosophila proteins, and derivs. and analogs thereof, are also provided. Also provided herein are vectors and host cells comprising such nucleic acids. Methods of production of a Drosophila protein (e.g., by recombination means), and derivs. and analogs thereof, are provided. Chimeric polypeptide mols. comprising polypeptides of the invention fused to heterologous polypeptide sequences are provided. Methods to identify the biol. function of a Drosophila gene are provided, including various methods for the functional modification (e.g., overexpression, underexpression, mutation, knock-out) of one gene, or of two or more genes simultaneously. [This abstract record is one of sixteen records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 669135-91-5
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
 (amino acid sequence; EST and contig sequences of Drosophila melanogaster and their uses in microarrays, retrieval of full-length cDNAs and proteomic anal., and for identification of pesticide targets)

RN 669135-91-5 HCAPLUS
 CN Protein (Drosophila melanogaster clone US6703491-SEQID-32985 fragment)
 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2003:130956 HCAPLUS
 DOCUMENT NUMBER: 138:199733
 TITLE: A Drosophila full-length cDNA resource
 AUTHOR(S): Stapleton, Mark; Carlson, Joe; Brokstein, Peter; Yu, Charles; Champe, Mark; George, Reed; Guarin, Hannibal; Kronmiller, Brent; Pacleb, Joanne; Park, Soo; Wan, Ken; Rubin, Gerald M.; Celniker, Susan E.

CORPORATE SOURCE: Berkeley Drosophila Genome Project, Lawrence Berkeley National Lab., Berkeley, CA, USA
 SOURCE: GenomeBiology (2002), 3(12), No pp. given
 CODEN: GNBLFW; ISSN: 1465-6914
 URL: <http://genomebiology.com/content/pdf/gb-2002-3-12-research0080.pdf>
 PUBLISHER: BioMed Central Ltd.
 DOCUMENT TYPE: Journal; (online computer file)
 LANGUAGE: English

AB A collection of sequenced full-length cDNAs is an important resource both for functional genomics studies and for the determination of the intron-exon structure of genes. Providing this resource to the Drosophila melanogaster research community has been a long-term goal of the Berkeley Drosophila Genome Project. The Drosophila Gene Collection (DGC) has been previously described , a set of putative full-length cDNAs that was produced by generating and analyzing >250,000 expressed sequence tags (ESTs) derived from a variety of tissues and developmental stages. High-quality full-insert sequence were generated for 8921 clones in the DGC. The sequences of these clones were compared to the annotated Release 3 genomic sequence, and >5300 cDNAs identified that contain a complete and accurate protein-coding sequence. This corresponds to at least one splice form for 40% of the predicted D. melanogaster genes. Potential new cases of RNA editing were also identified. Thus, comparison of cDNA sequences to a high-quality annotated genomic sequence is an effective approach to identifying and eliminating defective clones from a cDNA collection. Clones were eliminated either because they carry single nucleotide discrepancies, which most probably result from reverse transcriptase errors, or because they are truncated and contain only part of the protein-coding sequence. [This abstract record is one of five records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 481877-77-4
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; full-length cDNA sequence resource for Drosophila melanogaster)
 RN 481877-77-4 HCAPLUS
 CN RE68566p (Drosophila melanogaster strain y; cn bw sp gene CG13893) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:678785 HCAPLUS
 DOCUMENT NUMBER: 137:380859
 TITLE: R391: a conjugative integrating mosaic comprised of phage, plasmid, and transposon elements
 AUTHOR(S): Boltner, Dietmar; MacMahon, Claire; Pembroke, J. Tony; Strike, Peter; Osborn, A. Mark
 CORPORATE SOURCE: Department of Biological Sciences, University of Essex, Colchester, CO4 3SQ, UK
 SOURCE: Journal of Bacteriology (2002), 184(18), 5158-5169
 CODEN: JOBAAY; ISSN: 0021-9193
 PUBLISHER: American Society for Microbiology
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The conjugative, chromosomally integrating element R391 is the archetype of the IncJ class of mobile genetic elements. Originally found in a South African Providencia rettgeri strain, R391 carries antibiotic and mercury resistance traits, as well as genes involved in mutagenic DNA repair. While initially described as a plasmid, R391 has subsequently been shown to be integrated into the bacterial chromosome, employing a phage-like integration mechanism closely related to that of the SXT element from *Vibrio cholerae* O139. Anal. of the complete 89-kb nucleotide sequence of R391 has revealed a mosaic structure consisting of elements originating in bacteriophages and plasmids and of transposable elements. A total of 96 open reading frames were identified; of these, 30 could not be assigned a function. Sequence similarity suggests a relationship of large sections of R391 to sequences from *Salmonella*, in particular those corresponding to the putative conjugative transfer proteins, which are related to the IncHI1 plasmid R27. A composite transposon carrying the kanamycin resistance gene and a novel insertion element were identified. Challenging the previous assumption that IncJ elements are plasmids, no plasmid replicon was identified on R391, suggesting that they cannot replicate autonomously.

IT 476016-57-6
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (amino acid sequence; R391, a conjugative integrating mosaic comprised of phage, plasmid, and transposon elements)

RN 476016-57-6 HCAPLUS

CN Protein (Providencia rettgeri mobile element R391 255-amino acid) (9CI)
 (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:173239 HCAPLUS

DOCUMENT NUMBER: 136:396932

TITLE: Reagents and kits, such as nucleic acid arrays, for detecting the expression of over 10,000 *Drosophila* genes

INVENTOR(S): Venter, J. Craig; Adams, Mark; Li, Peter W. D.; Myers, Eugene W.

PATENT ASSIGNEE(S): PE Corporation (NY), USA

SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001071042	A2	20010927	WO 2001-XG9231	20010323
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,			

YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 WO 2001071042 A2 20010927 WO 2001-US9231 20010323
 WO 2001071042 A3 20030313
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
 HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
 YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 20050208558 A1 20050922 US 2005-97143 20050404
 PRIORITY APPLN. INFO.: US 2000-191637P P 20000323
 US 2000-614150 A 20000711
 WO 2001-US9231 A 20010323
 US 1999-157832P P 19991019
 US 1999-160191P P 19991019
 US 1999-161932P P 19991019
 US 1999-164769P P 19991112
 US 1999-173383P P 19991228
 US 2000-175693P P 20000112
 US 2000-184831P P 20000224
 AB The present invention is based on the sequencing and assembly of the
 Drosophila melanogaster genome. The present invention provides the
 primary nucleotide sequence of a large portion of the Drosophila
 melanogaster genome in a series of genomic and predicted transcript
 sequences. This information is provided in the form of genomic,
 transcript and protein sequence information and can be used to generate
 nucleic acid detection reagents and kits such as nucleic acid arrays.
 Primary sequences are provided as contiguous strings in a
 computer-readable format and recorded on media such as floppy disks, hard
 disks, magnetic tape, CD-ROM, RAM, ROM and hybrids of these categories.
 Genes/exons can be predicted, sequences can be edited and homol. searches
 of target motifs can be conducted. [This abstract record is one of ten
 records for this document necessitated by the large number of index entries
 required to fully index the document and publication system constraints.].
 IT 431288-23-2
 RL: ANT (Analyte); BSU (Biological study, unclassified); BUU (Biological
 use, unclassified); PRP (Properties); ANST (Analytical study); BIOL
 (Biological study); USES (Uses)
 (amino acid sequence; reagents and kits, such as nucleic acid arrays,
 for detecting the expression of over 10,000 Drosophila genes)
 RN 431288-23-2 HCAPLUS
 CN Protein (Drosophila melanogaster clone WO0171042-SEQID-33039) (9CI) (CA
 INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L2 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2000:230405 HCAPLUS
 DOCUMENT NUMBER: 132:304167
 TITLE: The genome sequence of Drosophila melanogaster

AUTHOR(S) :

Adams, Mark D.; Celniker, Susan E.; Holt, Robert A.; Evans, Cheryl A.; Gocayne, Jeannine D.; Amanatides, Peter G.; Scherer, Steven E.; Li, Peter W.; Hoskins, Roger A.; Galle, Richard F.; George, Reed A.; Lewis, Suzanna E.; Richards, Stephen; Ashburner, Michael; Henderson, Scott N.; Sutton, Granger G.; Wortman, Jennifer R.; Yandell, Mark D.; Zhang, Qing; Chen, Lin X.; Brandon, Rhonda C.; Rogers, Yu-Hui C.; Blazej, Robert G.; Champe, Mark; Pfeiffer, Barret D.; Wan, Kenneth H.; Doyle, Clare; Baxter, Evan G.; Helt, Gregg; Nelson, Catherine R.; Miklos, George L. Gabor; Abril, Josep F.; Agbayani, Anna; An, Hui-Jin; Andrews-Pfannkoch, Cynthia; Baldwin, Danita; Ballew, Richard M.; Basu, Anand; Baxendale, James; Bayraktaroglu, Leyla; Beasley, Ellen M.; Beeson, Karen Y.; Benos, P. V.; Berman, Benjamin P.; Bhandari, Deepali; Bolshakov, Slava; Borkova, Dana; Botchan, Michael R.; Bouck, John; Brokstein, Peter; Brottier, Phillipe; Burtis, Kenneth C.; Busam, Dana A.; Butler, Heather; Cadieu, Edouard; Center, Angela; Chandra, Ishwar; Cherry, J. Michael; Cawley, Simon; Dahlke, Carl; Davenport, Lionel B.; Davies, Peter; De Pablos, Beatriz; Delcher, Arthur; Deng, Zuoming; Mays, Anne Deslattes; Dew, Ian; Dietz, Suzanne M.; Dodson, Kristina; Doup, Lisa E.; Downes, Michael; Dugan-Rocha, Shannon; Dunkov, Boris C.; Dunn, Patrick; Durbin, Kenneth J.; Evangelista, Carlos C.; Ferraz, Concepcion; Ferriera, Steven; Fleischmann, Wolfgang; Foster, Carl; Gabrielian, Andrei E.; Garg, Neha S.; Gelbart, William M.; Glasser, Ken; Glodek, Anna; Gong, Fangcheng; Gorrell, J. Harley; Gu, Zhiping; Guan, Ping; Harris, Michael; Harris, Nomi L.; Harvey, Damon; Heiman, Thomas J.; Hernandez, Judith R.; Houck, Jarrett; Hostin, Damon; Houston, Kathryn A.; Howland, Timothy J.; Wei, Ming-Hui; Ibegwam, Chinyere; Jalali, Mena; Kalush, Francis; Karpen, Gary H.; Ke, Zhaoxi; Kennison, James A.; Ketchum, Karen A.; Kimmel, Bruce E.; Kodira, Chinnappa D.; Kraft, Cheryl; Kravitz, Saul; Kulp, David; Lai, Zhongwu; Lasko, Paul; Lei, Yiding; Levitsky, Alexander A.; Li, Jiayin; Li, Zhenya; Liang, Yong; Lin, Xiaoying; Liu, Xiangjun; Mattei, Bettina; McIntosh, Tina C.; McLeod, Michael P.; McPherson, Duncan; Merkulov, Gennady; Milshina, Natalia V.; Mobarry, Clark; Morris, Joe; Moshrefi, Ali; Mount, Stephen M.; Moy, Mee; Murphy, Brian; Murphy, Lee; Muzny, Donna M.; Nelson, David L.; Nelson, David R.; Nelson, Keith A.; Nixon, Katherine; Nusskern, Deborah R.; Pacleb, Joanne M.; Palazzolo, Michael; Pittman, Gjange S.; Pan, Sue; Pollard, John; Puri, Vinita; Reese, Martin G.; Reinert, Knut; Remington, Karin; Saunders, Robert D. C.; Scheeler, Frederick; Shen, Hua; Shue, Bixiang Christopher; Siden-Kiamos, Inga; Simpson, Michael; Skupski, Marian P.; Smith, Tom; Spier, Eugene; Spradling, Allan C.; Stapleton, Mark; Strong, Renee; Sun, Eric; Svirska, Robert; Tector, Cyndee; Turner, Russell; Venter, Eli;

Wang, Aihui H.; Wang, Xin; Wang, Zhen-Yuan; Wassarman, David A.; Weinstock, George M.; Weissenbach, Jean; Williams, Sherita M.; Woodage, Trevor; Worley, Kim C.; Wu, David; Yang, Song; Yao, Q. Alison; Ye, Jane; Yeh, Ru-Fang; Zaveri, Jayshree S.; Zhan, Ming; Zhang, Guangren; Zhao, Qi; Zheng, Liansheng; Zheng, Xiangqun H.; Zhong, Fei N.; Zhong, Wenyan; Zhou, Xiaojun; Zhu, Shiaoping; Zhu, Xiaohong; Smith, Hamilton O.; Gibbs, Richard A.; Myers, Eugene W.; Rubin, Gerald M.; Venter, J. Craig

CORPORATE SOURCE: Celera Genomics, Rockville, MD, 20850, USA
 SOURCE: Science (Washington, D. C.) (2000), 287(5461), 2185-2195
 CODEN: SCIEAS; ISSN: 0036-8075
 PUBLISHER: American Association for the Advancement of Science
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The fly *Drosophila melanogaster* is one of the most intensively studied organisms in biol. and serves as a model system for the investigation of many developmental and cellular processes common to higher eukaryotes, including humans. The nucleotide sequence was determined of nearly all of the .apprx.120-megabase euchromatic portion of the *Drosophila* genome using a whole-genome shotgun sequencing strategy supported by extensive clone-based sequence and a high-quality bacterial artificial chromosome phys. map. Efforts are under way to close the remaining gaps; however, the sequence is of sufficient accuracy and contiguity to be declared substantially complete and to support an initial anal. of genome structure and preliminary gene annotation and interpretation. The genome encodes .apprx.13,600 genes, somewhat fewer than the smaller *Caenorhabditis elegans* genome, but with comparable functional diversity. Access to supporting information on each gene is available through FlyBase at <http://flybase.bio.indiana.edu> and through Celera at www.celera.com; the sequences are deposited in GenBank with Accession Nos. AE002566-AE003403. [This abstract record is one of 4 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 262973-73-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(amino acid sequence; genome sequence of *Drosophila melanogaster*)

RN 262973-73-9 HCAPLUS

CN Protein (*Drosophila melanogaster* gene CG13893) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 1 669135-91-5/RN

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L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
RN 669135-91-5 REGISTRY
CN Protein (Drosophila melanogaster clone US6703491-SEQID-32985 fragment)
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 985: PN: US6703491 SEQID: 32985 claimed protein
FS PROTEIN SEQUENCE
SQL 136

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

=====+=====

Not Given|US6703491

10/540,551

|claimed SEQID
|32985

SEQ 1 PEELYIDQSS QQSDRDFVEA QVPKGDKLKL HFKVNVVEEQK ILSWEFRTFD
 51 YDIKFGIYSV DDKTGEKRSE VPLGTVYSNE MDEIGYISTR PNTTYTVVFD
 101 NSASYLRSKK LRYWVDLISE EEEGISELTT QMDNTQ
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PRP (Properties); USES
 (Uses)
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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